THE UNIVERSITY OF ILLINOIS COLLEGE OF ENGINEERING 1963 GRADUATES

5 years later
where are they now?

Interest in the progress of graduates continues both among students and employing organizations. It is hoped that the following report will answer some of your questions. If you have any suggestions for the improvement of further reports, please give us your ideas.

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FIVE-YEAR SALARY PROGRESS OF ENGINEERING GRADUATES WHO RECEIVED A B.S. DEGREE IN 1963

	Number of Questionnaires Sent	Number of Questionnaires Returned	Percent of Return	Military Service	Currently in Grad. College	Employed	Average Monthly Salary 1968	High Monthly Salary 1968	Low Monthly Salary 1968	Average Monthly Salary 1963	Percent of Increase 1963-1968
All Engineers	644	409	63.51%	5.62% 23	6.11% 25	88.27% 361	$982.94	$1550.00[2]	$500.00[3]	$596.12	64.89%[1]
Aero. E.	55	33	60.00%	7	2	24	999.63	1160.00	900.00	615.03	62.53%
Ag. E.	14	11	78.57%	1	1	9	986.00	1175.00	850.00	571.75	72.45%
Ceram. E.	19	11	57.90%	-	-	11	993.64	1200.00	750.00	593.29	67.47%
Civil E.	88	58	65.90%	-	4	54	960.04	1500.00	750.00	569.19	68.66%
E. E.	211	125	59.24%	11	4	110	1000.94	1550.00	500.00	613.62	63.12%
E. Mech.	10	7	70.00%	1	3	3	974.33	1060.00	863.00	604.50	61.17%
E. Physics	28	19	67.85%	1	6	12	947.08	1250.00	760.00	578.75	63.64%
Gen. E.	54	31	57.40%	1	-	30	941.07	1460.00	750.00	599.53	56.96%
I. E.	34	25	73.53%	1	-	24	1034.21	1542.00	780.00	581.09	77.97%
M. E.	109	73	66.97%	-	5	68	961.19	1324.00	670.00	579.64	65.82%
Met. E.	15	10	66.67%	-	-	10	1043.60	1400.00	930.00	590.60	76.70%
Min. E.	7	6	85.71%	-	-	6	994.17	1350.00	760.00	525.00	89.36%

[1]Increase in starting salaries 1963 to 1968, 29.09%
[2]Highest salary - employed by a large industrial firm
[3]Lowest salary - employed as a high school teacher

SALARY COMPARISON FIGURES OF THOSE GRADUATES WHO HAVE COMPLETED AN ADVANCED DEGREE SINCE 1963 AND THOSE WHO HAVE NOT*

The following salary comparison figures require some explanation. It must be remembered that the one hundred eight 1963 graduates who have completed an advanced degree have taken time out to complete the necessary academic work during the five years since their graduation in 1963. As a result, their years of employment will vary in proportion to the time required to complete this work. The salary figure on those graduates listed under "No Advanced Degree" represents financial progress for the full five years while the salaries listed in the M.S. and Ph.D. columns may only represent financial progress of from one to four years less than the full five years.

	Total Employed	No Advanced Degree	M.S. Original Field	M.S. Other Technical Field	M.S. Non-Technical Field	Ph.D. Original Field	Ph.D. Other Technical Field	M. B. A.	LL. B.	Other
All Engineers	361	253	54	14	2[1]	6	3	21	6	2[2]
Average Salary		968.43	1011.65	950.00	1531.00	1182.67	1141.67	990.33	945.17	925.00
Aero. & Astro. Eng.	24	17	3	3	-	-	-	-	1	-
Average Salary		995.35	1046.67	1001.67	-	-	-	-	925.00	-
Agricultural Eng.	9	5	2	-	-	-	1	-	-	1
Average Salary		977.60	980.50	-	-	-	1175.00	-	-	850.00
Ceramic Eng.	11	7	3	-	-	1	-	-	-	-
Average Salary		970.00	980.00	-	-	1200.00	-	-	-	-
Civil Eng.	54	42	8	1	-	1	-	2	-	-
Average Salary		946.76	1008.87	770.00	-	1000.00	-	1118.50	-	-
Electrical Eng.	110	78	23	2	-	3	-	3	1	-
Average Salary		981.68	1027.39	1050.00	-	1248.67	-	1046.67	916.00	-
Eng. Mechanics	3	1	-	2	-	-	-	-	-	-
Average Salary		1000.00	-	961.50	-	-	-	-	-	-
Eng. Physics	12	5	2	3	-	-	2	-	-	-
Average Salary		882.00	924.00	952.33	-	-	1125.00	-	-	-
General Eng.	30	21	-	-	-	-	-	5	3	1
Average Salary		934.38	-	-	-	-	-	890.00	1053.33	1000.00
Industrial Eng.	24	19	-	-	2	-	-	3	-	-
Average Salary		981.26	-	-	1531.00	-	-	1038.33	-	-
Mechanical Eng.	68	49	10	1	-	1	-	6	1	-
Average Salary		955.88	1002.80	910.00	-	1150.00	-	960.83	670.00	-
Metallurgical Eng.	10	6	2	-	-	-	-	2	-	-
Average Salary		1039.16	1055.50	-	-	-	-	1045.00	-	-
Mining Eng.	6	3	1	2	-	-	-	-	-	-
Average Salary		1110.00	900.00	867.50	-	-	-	-	-	-

[1] 2 M.S. Industrial Administration
[2] 1 M.S. Public Administration
1 M.S. Engineering Administration

*Of those who completed an advanced degree 67 (62.04%) completed the degree as a full-time student, 41 (37.96%) completed the degree part-time while employed.

1963 GRADUATES PRESENTLY WORKING ON ADVANCED DEGREES

	Total	M.S. in Original Field	M.S. in Other Technical Field	M.S. in Non-Technical Field	Ph.D. in Original Field	Ph.D. in Other Technical Field	Ph.D. in Non-Technical Field	M. B. A.	Law	Other
All Engineers	96	31	14	3	5	3	-	37	1	2[1]
Aero. & Astro. Eng.	10	3	6	-	-	1	-	-	-	-
Agricultural Eng.	1	-	-	-	-	-	-	-	-	1
Ceramic Eng.	1	-	-	-	-	-	-	1	-	-
Civil Eng.	10	5	1	-	1	-	-	3	-	-
Electrical Eng.	32	13	2	-	2	-	-	14	-	1
Eng. Mechanics	2	1	-	-	-	1	-	-	-	-
Eng. Physics	3	1	1	-	1	-	-	-	-	-
General Eng.	7	-	1	1	-	-	-	4	1	-
Industrial Eng.	6	1	-	-	-	-	-	5	-	-
Mechanical Eng.	17	4	3	2	1	-	-	7	-	-
Metallurgical Eng.	5	2	-	-	-	-	-	3	-	-
Mining Eng.	2	1	-	-	-	1	-	-	-	-

[1] 1 Engineering Administration
1 Public Administration

CORRELATION BETWEEN SCHOLASTIC AVERAGE AND FINANCIAL PROGRESS 1963 - 1968

	1st Decile 5.00 - 4.239	2nd Decile 4.238 - 4.000	3rd Decile 3.999 - 3.800	4th Decile 3.799 - 3.678	5th Decile 3.677 - 3.565	6th Decile 3.564 - 3.469	7th Decile 3.468 - 3.373	8th Decile 3.372 - 3.264	9th Decile 3.263 - 3.154	10th Decile 3.153 + below
All Engineers	37 1020.46	36 1029.11	36 974.19	36 969.53	36 965.08	36 1026.14	36 937.36	36 973.08	36 953.61	36 979.83
Aero. E.	3 996.67	-	3 940.33	2 935.00	-	5 1050.60	1 1069.00	3 995.00	4 979.50	3 1028.33
Ag. E.	1 1175.00	4 942.50	2 977.50	-	-	-	1 1050.00	1 924.00	-	-
Ceramic E.	-	1 950.00	4 1063.75	1 950.00	-	1 1167.00	1 750.00	2 970.00	-	1 918.00
Civil E.	3 976.33	6 982.33	5 1008.00	8 910.63	7 860.00	6 1099.17	3 918.00	6 858.33	7 1005.43	3 1045.67
E. E.	13 1105.38	12 1038.50	12 953.17	10 995.50	19 1317.37	12 1016.08	11 921.36	8 983.50	7 994.29	6 952.00
E. Mech.	1 1060.00	-	-	-	2 931.50	-	-	-	-	-
E. Phys.	4 950.00	1 1250.00	2 917.50	3 866.00	-	1 1100.00	1 782.00	-	-	-
Gen. E.	5 917.60	1 830.00	3 930.67	3 1066.67	-	4 970.75	5 913.20	1 925.00	2 860.00	6 954.67
I. E.	-	3 1325.67	1 1000.00	1 1150.00	1 950.00	2 970.00	4 992.25	5 1020.00	3 951.67	4 970.00
M. E.	5 994.00	6 906.67	3 948.33	6 999.17	6 990.00	4 940.00	8 988.75	6 952.17	12 908.67	12 990.33
Met. E.	-	1 1125.00	1 1090.00	1 1000.00	1 960.00	1 1050.00	-	3 1115.33	1 935.00	1 930.00
Min. E.	2 937.50	1 1350.00	-	1 900.00	-	-	1 760.00	1 1080.00	-	-

RANGE OF 1968 SALARIES OF 1963 ENGINEERING GRADUATES

The salaries are divided between those who have not received an additional degree and those who have.

B. S. Degree

Salary	Total	Salary	Total
$1550	1	$979	1
1543	1	975	4
1500	1	968	1
1410	1	965	4
1400	2	960	6
1350	1	958	2
1324	1	955	2
1300	2	953	3
1250	2	950	15
1200	5	940	4
1167	1	939	1
1160	1	935	4
1150	3	932	1
1120	2	930	2
1108	1	925	5
1105	2	924	1
1100	4	920	4
1083	1	919	1
1080	1	918	2
1075	1	916	2
1069	1	915	3
1066	1	910	3
1060	1	908	1
1050	5	901	1
1045	1	900	12
1040	7	895	1
1032	1	890	5
1025	3	888	1
1020	5	885	3
1017	1	883	2
1014	1	880	2
1013	1	875	6
1010	3	870	4
1000	25	867	2
995	1	865	2
994	2	860	3
991	1	855	2
990	2	850	6
987	1	843	1
985	1	840	1
980	3	839	1

Salary	Total
$830	2
825	1
820	1
810	2
800	8
795	1
780	1
775	3
760	1
758	1
750	3
500	1
	253
Median	$950

M. S. Degree

$1542	1
1520	1
1200	2
1176	1
1175	1
1130	1
1125	1
1110	2
1100	5
1095	1
1090	1
1080	1
1075	2
1070	1
1060	2
1055	1
1050	2
1040	2
1035	1
1020	1
1000	4
995	1
990	2

Salary	Total
$986	1
983	1
980	1
975	2
962	1
960	1
955	2
950	3
945	1
941	1
940	1
930	1
925	1
920	3
917	2
912	1
910	2
900	2
888	1
882	1
863	1
782	1
770	1
760	1
	70
Median	$990

Ph. D. Degree

$1300	1
1290	1
1250	1
1200	1
1175	1
1156	1
1150	1
1000	2
	9
Median	$1160

M. B. A. Degree

Salary	Total
$1250	1
1200	1
1150	1
1145	1
1090	1
1087	1
1000	2
965	1
950	3
940	1
925	3
920	1
915	1
890	1
870	1
750	1
	21
Median	$950

Law Degree

$1460	1
925	1
916	1
900	1
800	1
670	1
	6
Median	$900

Other

$1000	1
850	1
	2

JOB CHANGES SINCE 1963

Total Per Cent of Change		Total Employed	No Changes			One Changes			Two Changes			Three Changes			Four Changes		
			Number	Per Cent of Change	Salary	Number	Per Cent of Change	Salary	Number	Per Cent of Change	Salary	Number	Per Cent of Change	Salary	Number	Per Cent of Change	Salary
45.42%	All Engineers	361	197	54.57%	984.64	114	31.58%	968.81	41	11.36%	1020.41	7	1.94%	905.43	2[1]	.55%	1125.00
62.50%	Aero. E.	24	9	37.50%	1027.77	12	50.00%	985.17	3	12.50%	973.00	-	-	-	-	-	-
22.22%	Ag. E.	9	7	77.78%	996.29	2	22.22%	950.00	-	-	-	-	-	-	-	-	-
45.45%	Ceramic E.	11	6	54.55%	1013.33	3	27.27%	963.33	2	18.18%	980.00	-	-	-	-	-	-
51.85%	Civil E.	54	26	48.15%	930.85	19	35.19%	962.00	7	12.96%	1044.57	1	1.85%	1000.00	1	1.85%	1050.00
43.64%	E. E.	110	62	56.36%	1026.97	34	30.91%	961.76	9	8.18%	977.55	4	3.64%	933.25	1	.91%	1200.00
-	E. Mech.	3	3	100.00%	974.33	-	-	-	-	-	-	-	-	-	-	-	-
25.00%	E. Phys.	12	9	75.00%	925.55	2	16.67%	1030.00	1	8.33%	975.00	-	-	-	-	-	-
43.33%	Gen. E.	30	17	56.67%	942.29	7	23.33%	905.29	5	16.67%	1016.20	1	3.33%	795.00	-	-	-
66.67%	I. E.	24	8	33.33%	995.63	9	37.50%	1001.55	7	29.17%	1120.29	-	-	-	-	-	-
38.24%	M. E.	68	42	61.76%	965.67	20	29.41%	962.40	5	7.35%	949.00	1	1.47%	810.00	-	-	-
50.00%	Met. E.	10	5	50.00%	1073.20	4	40.00%	986.25	1	10.00%	1125.00	-	-	-	-	-	-
50.00%	Min. E.	6	3	50.00%	878.33	3	50.00%	1110.00	-	-	-	-	-	-	-	-	-

[1] 1 made 4 changes - salary $1200
1 made 5 changes - salary $1050

REASONS FOR CHANGING POSITIONS

Some attempt has been made to combine the following list of reasons. Many respondents said the same things in different words. For greater ease of evaluation the reasons have been divided into categories.

SALARY

30 poor salary
4 poor pay and benefits
1 over a year without a salary increase

FURTHER EDUCATION

15 to return to graduate school
1 to enter law school
1 to enter pilot training

LAY OFFS

7 laid off
5 cancellation of government contract
4 program cancelled
2 company out of business
2 division sold
1 laid off due to cutback in construction
1 reduction of work force
1 termination of product line
1 fired

LOCATION

10 bad location - did not like area
4 move to warmer climate
3 company relocated, did not want to move
2 different locale than West Coast

REASONS COVERING ACTUAL WORK ASSIGNMENTS

23 lack of opportunity and advancement
18 better position and advancement
18 greater opportunity and challenge
17 type of work
8 more interesting and challenging work
7 wider experience
7 job dissatisfaction
5 change in field of interest
4 professional growth
3 lack of work
3 wanted more design work
3 unsatisfactory training program
2 too much paper work
2 opportunity to move into a highly technical group
2 opportunity to become a partner in the company
2 did not like the type of industry
1 grew out of job
1 to gain more practical, less theoretical, experience
1 to start own business
1 engineers sat around with trivia as work assignments
1 lack of stimulating research environment
1 did not like consulting
1 bored, too many engineers, not enough work
1 boredom and poor advancement
1 was not doing E.E. work and was not interested in becoming a general engineer
1 dissatisfaction with assignments and desired employment with a nongovernmental agency
1 company stopped work in my field of interest
1 wanted engineering, disliked associated clerical duties
1 no growth of responsibility - too conservative - no room for advancement
1 nothing to do, just sat around waiting for a contract
1 job assignment was boring, had little to do with electronics
1 lack of work - transferred to another division I did not like

COMPANY POLICIES

5 bad company management
4 poor working conditions
2 did not agree with company policies
2 wanted smaller company
1 poor business conditions
1 change in management
1 disgusted with agency environment
1 did not like company
1 disagreed with company policies

(con't)

REASONS FOR CHANGING POSITIONS (CON'T)

COMPANY POLICIES (con't)

2 did not like Los Angeles area
2 to get back to the Midwest
1 to return to California
1 to return to a large city
1 homesick
1 to return to United States

PERSONAL REASONS

5 personal (no reason given)
1 too much pressure
1 physical reaction to product
1 personality conflict
1 difference of opinion as to how to run the business
1 disliked supervisor
1 family requested my return to Puerto Rico
1 office politics - I lost
1 went to Finland to get married
1 saw that the job was number one in my life and not my family
1 flopped in my own business

THE 361 RESPONDING, EMPLOYED 1963 ENGINEERING GRADUATES ARE NOW EMPLOYED BY THE FOLLOWING COMPANIES

Aerojet General Corporation	1 Cer.E., 1 Aero.E., 1 E.Phys.
Aetna Bearing Company	1 M.E.
Agency for International Development	1 E.E.
Airesearch Manufacturing Company	1 Ag.E., 1 E.E.
Allen Bradley Company	1 Cer.E., 1 E.E.
Allis Chalmers Corporation	1 Ag.E., 1 I.E., 1 M.E.
American Laundry Machine Industry	1 M.E.
American Pipe & Construction Company	1 Civ.E.
Argonne National Laboratory	1 E.E., 2 E. Phys., 1 M.E.
Armstrong Rubber Company	1 I.E.
Ashland Oil and Refining Company	1 M.E.
Atlantic Research Corporation	1 Aero.E., 1 Civ.E.
Austin Company	1 Civ.E.
Automatic Electric Laboratories	1 M.E.
Avco Electronics Company	1 E.E.
Avco Missiles	1 Aero.E.
Azzarelli Construction Company	1 Civ.E.
Badger Meter Manufacturing Company	1 E.E.
Michael J. Baker Company	1 Civ. E.
Ball Brothers Research	1 E.E.
Barber-Colman Company	1 E.E.
Barnes & Reinecke, Incorporated	1 M.E.
Bates & Rogers Construction Corporation	1 Civ.E.
Batelle Memorial Institute	2 Met.E.
Baystone Construction Company	1 Civ.E.
Bechtel Corporation	1 Civ.E., 1 E.E.
Bell & Howell Company	1 E.Phys.
Bell System: (9)	
Illinois Bell Telephone Company	2 E.E., 1 Gen.E.
Sandia Corporation	1 E.E., 1 M.E.
Teletype Corporation	1 E.E., 1 Gen.E., 1 I.E.
Western Electric Company	1 M.E.
Beloit Corporation	1 M.E.
Bendix Corporation	2 E.E., 2 M.E.
Boeing Company	2 Aero.E., 1 E.E., 1 M.E.
Booz-Allen Applied Research	1 E.E.
Borg Warner Corporation	1 M.E.
Brown, Manthei & Davis	1 M.E.
California State Government	2 Civ.E.
Carrier Air Conditioning Company	1 Gen.E.
Caterpillar Tractor Company	2 Ag.E., 2 Gen.E., 1 M.E.
Chadwell, Keck, Kayser, Ruggles & McLaren	1 Gen.E.
Chicago Transit Authority	1 M.E.
Chrysler Corporation (Space Division)	1 E.E.
City Water, Light & Power Company	1 E.E.
Clark Dietz & Associates	1 Civ.E.

Collins Radio Company	5 E.E.
Commonwealth Edison Company	1 E.E., 1 M.E.
Conductron Missouri	2 E.E.
Consolidated Construction Company	1 Civ.E.
Consumers Power Company	1 M.E.
Control Data Corporation	1 E.E.
Corning Glass Company (Signetics)	1 Cer.E.
Corn Products Company	1 I.E.
Cornell Aeronautical Laboratory	1 E.E.
Crane Packing Company	1 M.E.
Cummins Engine Company	1 Met.E.
Curtis, Morris & Safford	1 E.E.
Daco, Inc.	1 M.E.
Dana Corporation: (3)	
Perfect Circle Division	1 M.E.
Victor Gasket Division	1 M.E.
Wholesale Parts Division	1 M.E.
Dayton Power & Light Company	1 E.E.
Delta Electronics, Inc.	1 E.E.
District of Columbia	
Department of Sanitary Engineering	1 Civ.E.
R. R. Donnelley and Sons Company	1 I.E.
Dow Chemical Company	1 Civ. E.
Dravo Corporation	1 Civ. E.
E. I. DuPont	1 M.E.
Electrical Utilities Company	1 E.E.
Electronic Communications, Incorporated	1 E.E.
Emerson Electric Company	1 E.E.
Emerson, Abbott, Harlow & Leedy, Incorporated	1 Civ.E.
Fansteel, Incorporated	1 Met.E.
Fenix & Scisson, Incorporated	1 Mining E.
Fidelman & Wolffe	1 Gen.E.
Fluid Systems, Incorporated	1 Gen.E.
Ford Motor Company	1 Ag.E., 1 Civ.E., 2 E.Mech., 3 Gen.E., 1 M.E.
J. M. Foster Company, Incorporated	1 Civ. E.
General Dynamics: (6)	
Convair Division	1 E.E.
Ft. Worth Division	2 Aero.E., 1 Civ.E., 1 E.E.
Pomona Division	1 Aero.E.
General Electric Company: (4)	
Chicago, Illinois	1 Gen.E.
Decatur, Illinois	1 E.E.
Fort Wayne, Indiana	1 Gen.E.
San Jose, California	1 E.E.
General Motors Corporation: (6)	
Allison Division	1 M.E.

Electro Motive Division	1 E.E., 1 M.E.
Pontiac Division	1 I.E.
Proving Ground	1 E.E.
Saginaw Steering	1 Gen.E.
General Radio Company	2 E.E.
Geolabs, Incorporated	1 Civ.E.
Georgia Institute of Technology	1 M.E.
Goodyear Tire & Rubber Company	1 Gen.E., 1 I.E.
Goss Company	1 M.E.
Grotnes Machine Works	1 M.E.
Grumann Aircraft Corporation	1 Aero.E.
Gulf General Atomic	1 E.E.
Ralph C. Hahn & Associates	1 M.E.
Hale & Kullgren Company	1 Civ.E.
Hawk, Kenneth C. - Consulting Engineer	1 Civ.E.
Hewlett-Packard Company: (4)	
Loveland, Colorado	1 E.E.
Palo Alto, California	2 E.E.
Southfield, Michigan	1 E.E.
Honeywell: (5)	
Hopkins, Minnesota	1 E.E.
Minneapolis, Minnesota	2 E.E.
St. Petersburg, Florida	1 Gen.E.
W. Covina, California	1 E.E.
Houdaille Strippir Division	1 M.E.
Hughes Aircraft Company	1 Cer.E., 1 E.E.
Illinois Division of Highways: (7)	
Chicago	2 Civ.E.
East St. Louis	1 Civ.E.
Elgin	1 Gen.E.
Ottawa	1 Civ.E.
Peoria	1 Civ.E.
Springfield	1 Civ.E.
Illinois Power Company	1 E.E.
Illinois Tool Works	1 E.E.
Illinois State Geological Survey	1 Mining E.
Illinois State Water Survey	1 Civ.E.
Ingersoll Rand Company	1 M.E.
Ingersoll Milling Machine Company	1 M.E.
International Harvester Company: (6)	
Chicago, Illinois	1 I.E., 1 M.E.
East Moline, Illinois	1 M.E.
Fort Wayne, Indiana	1 M.E.
Melrose Park, Illinois	1 I.E.
Rock Island, Illinois	1 I.E.

International Business Machines Company: (10)	
Atlanta, Georgia	1 E.E.
Boulder, Colorado	1 M.E.
Dayton, Ohio	1 Gen.E.
Huntsville, Alabama	1 Aero.E.
Kennedy Space Center, Florida	1 E.E.
Los Angeles, California	2 E.Phys.
Rockford, Illinois	1 I.E.
Springfield, Illinois	1 Gen.E.
Yorktown Heights, New York	1 E.E.
Interstate Electronics Company	1 E.E.
Jet Propulsion Laboratory	1 E.E.
Johnson & Johnson Company	1 E.E., 1 M.E.
Kaiser Engineers	1 M.E.
A. T. Kearney Company	1 I.E.
Kelly Systems	1 I.E.
Kewanee Machinery & Conveyor Company	1 Ag.E.
Laughlin Simmons & Company	1 Civ.E.
Lawrence Radiation Laboratory	1 E.E., 1 E.Phys.
Eli Lilly Company	1 I.E.
Litton Industries, Guidance and Control Division	2 E.E.
H. W. Lochner, Incorporated	2 Civ.E.
Lockheed: (7)	
Burbank, California	1 Aero.E.
Huntsville, Alabama	1 Aero.E.
Marietta, Georgia	1 Aero.E.
Sunnyvale, California	2 Aero.E., 1 E.E., 1 M.E.
Louisiana State University	1 E.Phys.
L. T. V. Incorporated	1 Aero.E.
Lutheran High School	1 E.E.
W. M. Lyles Company	1 E.E.
Magnavox Corporation	3 E.E.
Mars Candy Company	2 I.E.
Martin Metals Company	1 Cer.E.
Martin Marietta Corporation	1 E.Phys.
Mautz & Oren, Incorporated	1 Mining E.
McDonnell Douglas Aircraft Corporation: (9)	
Long Beach, California	1 Aero.E., 1 Civ.E.
St. Louis, Missouri	1 Civ.E., 3 E.E., 2 M.E.
Santa Monica, California	1 E.E.
Microwave Cavity Laboratories	1 Gen.E.
Miller Davis Company	1 Civ.E.
Minnesota Mining & Manufacturing Company	2 Cer.E.
Mississippi Valley Structural Steel Company	1 Ag.E.
Modine Manufacturing Company	1 I.E.
Monsanto Chemical Company	2 Gen.E.

Montana College of Mineral Science & Technology	1 Mining E.
Motorola: (9)	
Chicago, Illinois	4 E.E.
Franklin Park, Illinois	1 E.E.
Phoenix, Arizona	2 E.E.
Schaumberg, Illinois	2 E.E.
North American Aviation: (5)	
Autonetics Division	2 E.E.
Los Angeles Division	1 Aero.E.
Rocketdyne Division	2 M.E.
Nalco Chemical Company	1 Cer.E.
National Aeronautics & Space Administration	1 Aero.E., 1 E.E.
National Mine Service Company	1 M.E.
Oak Manufacturing Company	1 E.E.
Oak Ridge National Laboratory	1 Met.E.
Ohio State University	1 E.E.
Orange County Road Department	1 Civ.E.
Outboard Marine Corporation	1 M.E.
Owens Corning Fiberglas	1 Cer.E.
Paschen Contractors, Incorporated	1 Civ.E.
Perma Power Company	1 I.E.
Philco-Ford	1 Aero.E., 1 E.E.
Powers Regulator Company	1 Gen.E.
Pratt & Whitney	1 Aero.E.
Precision Cast Parts Corporation	1 I.E.
Procter & Gamble Company	1 Civ.E.
Republic Steel Corporation	1 Met.E.
Rosenthal Manufacturing Company	1 I.E.
San Francisco Naval Shipyard	1 I.E.
Sanders Associates	2 E.E.
Sangamo Electric Company	1 E.E.
Sargent and Lundy	1 Civ.E.
S. C. Electric Company	1 Met.E.
Schering Corporation	1 M.E.
Shell Oil Company	1 Mining E.
Sierracin Corporation	1 M.E.
Signetics Corporation	1 Cer.E.
Silverman & Cass	1 Gen.E.
J. L. Simmons, Incorporated	1 Civ.E.
S. K. F. Industries, Tyson Division	1 I.E., 1 M.E.
Ted Smith Aircraft Company	1 Aero.E.
Sperry Rand, Phoenix Division	1 M.E.
Spokane Metropolitan Transportation Study	1 Civ.E.
Springfield Sanitary District	1 Civ.E.
Staley Manufacturing Company	1 M.E.
Stauffer Chemical Company	1 Civ.E.

Stewart Warner Corporation	1 E.E.
Sundstrand Aviation Company	1 M.E.
Sylvania Electronics	1 E.E.
Tektronix, Incorporated	1 E.E.
Texaco	1 M.E., 1 Mining E.
Texas Transportation Institute	1 Civ.E.
Torrington Company	1 M.E.
Trane Company	1 I.E., 3 M.E.
Tropani Engineering Company	1 Civ.E.
T. R. W. Systems	1 Aero.E., 3 M.E., 1 Met.E.
University of Illinois	1 Ag.E., 1 Civ.E., 1 Gen.E., 1 E.E.
U.S. Army Electronics Command	1 E.E.
U.S. Army Aviation Command	1 Aero. E.
U.S. Army Corp of Engineers	4 Civ.E.
U.S. Bureau of Reclamation	1 M.E.
U.S. Forest Service	1 M.E.
U.S. Government - E.S.S.A.	1 M.E.
U.S. Labor Relations Board	1 M.E.
U.S. Naval Research Laboratory	1 E.Phys.
U.S. Naval Weapons Laboratory	1 E.E.
U.S. Veterans Hospital	1 Civ.E.
U.S. Steel Corporation	1 Civ.E.
Union Carbide Corporation: (5)	
Linde Division	2 Gen.E., 1 E.Phys.
Materials Division	1 Met.E.
Puerto Rico	1 E.E.
Union Electric Company	1 E.E.
United Technical Center	1 M.E.
University of Missouri	1 M.E.
Universal Oil Company	1 Civ.E., 1 Gen.E.
Verson All Steel Press Company	1 E.E.
Allen M. Voorhees & Associates	1 Civ.E.
WABCO - Construction Equipment Division	1 Civ.E.
Watkins-Johnson Company	1 E.E.
Western Engineering Company	1 E.E.
Westinghouse: (8)	
Baltimore, Maryland	2 E.E., 1 Gen.E.
Cockeysville, Maryland	1 E.E.
Muncie, Indiana	1 E.E.
Philadelphia, Pennsylvania	1 E.E.
Pittsburgh, Pennsylvania	1 M.E.
W. Mifflin, Pennsylvania	1 E. Mech.
Whirlpool Corporation	1 E.Phys.
Wyman-Gordon Company	1 Met.E.
Zenith Corporation: (3)	
Radio Division	2 E.E.
Rauland Corporation	1 E.E.
Zirconium Corporation of America	1 Cer.E.
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PRESENT GEOGRAPHIC LOCATION OF 1963 ENGINEERING GRADUATES

Location	All Engineers	Per Cent	Geographic Location 1963	Aero. E.	Ag. E.	Ceramic E.	Civil E.	E. E.	E. Mech.	E. Phys.	Gen. E.	I. E.	M. E.	Met. E.	Min. E.
Illinois	118	32.69%	30.90%	-	5	2	25	28	-	3	13	11	25	3	3
Chicago & Suburbs 72															
Outside Chicago 46															
California	64	17.72%	20.68%	11	-	4	9	23	-	4	1	2	9	1	-
Ohio	19	5.26%	4.19%	-	-	2	2	3	-	-	3	2	5	2	-
Indiana	15	4.16%	4.19%	-	-	-	2	4	-	1	2	-	4	2	-
Michigan	15	4.16%	2.62%	-	1	-	1	2	2	1	4	1	3	-	-
Missouri	13	3.60%	3.93%	1	-	-	1	8	-	-	1	-	2	-	-
Wisconsin	13	3.60%	3.66%	-	1	1	-	3	-	-	-	3	5	-	-
Texas	9	2.49%	2.88%	3	-	-	3	3	-	-	-	-	-	-	-
New York	8	2.22%	3.40%	1	-	-	1	3	-	-	1	-	2	-	-
Florida	7	1.94%	1.57%	1	-	-	-	4	-	-	2	-	-	-	-
Maryland	7	1.94%	.79%	-	-	-	-	4	-	1	1	-	-	1	-
Minnesota	7	1.94%	1.83%	-	-	2	1	4	-	-	-	-	-	-	-
Washington D.C.	6	1.66%	1.57%	1	-	-	1	1	-	1	1	-	1	-	-
Iowa	6	1.66%	3.40%	-	-	-	-	3	-	-	-	1	2	-	-
Pennsylvania	6	1.66%	2.88%	-	-	-	3	1	1	-	-	-	1	-	-
Arizona	5	1.39%	.26%	-	1	-	-	3	-	-	-	-	1	-	-
New Jersey	5	1.39%	1.31%	-	-	-	-	1	-	-	-	2	2	-	-
Washington (State)	5	1.39%	1.83%	2	-	-	1	1	-	-	-	-	1	-	-
Colorado	4	1.11%	2.62%	-	-	-	-	2	-	-	-	-	2	-	-
Alabama	3	.83%	-	2	-	-	-	1	-	-	-	-	-	-	-
Georgia	3	.83%	.26%	1	-	-	-	1	-	-	-	-	1	-	-
Virginia	3	.83%	.26%	-	-	-	1	1	-	-	-	1	-	-	-
Connecticut	2	.55%	1.05%	-	-	-	-	-	-	-	1	-	1	-	-
Louisiana	2	.55%	.52%	-	-	-	-	-	-	1	-	-	-	-	1
Massachusetts	2	.55%	1.83%	1	-	-	-	1	-	-	-	-	-	-	-
New Hampshire	2	.55%	-	-	-	-	-	2	-	-	-	-	-	-	-
Oklahoma	2	.55%	-	-	-	-	1	-	-	-	-	-	-	-	1
Oregon	2	.55%	.26%	-	-	-	-	1	-	-	-	1	-	-	-
Tennessee	2	.55%	1.05%	-	1	-	-	-	-	-	-	-	-	1	-
Kentucky	1	.28%	-	-	-	-	-	-	-	-	-	-	1	-	-
Montana	1	.28%	-	-	-	-	-	-	-	-	-	-	-	-	1
New Mexico	1	.28%	.26%	-	-	-	-	1	-	-	-	-	-	-	-
Puerto Rico	1	.28%	-	-	-	-	-	1	-	-	-	-	-	-	-
Vermont	1	.28%	-	-	-	-	1	-	-	-	-	-	-	-	-
Wyoming	1	.28%	-	-	-	-	1	-	-	-	-	-	-	-	-
Totals	361	100%		24	9	11	54	110	3	12	30	24	68	10	6

THE EMPLOYED 1963 GRADUATES ARE NOW EMPLOYED BY THE FOLLOWING TYPES OF COMPANIES

Type of Company	Per Cent	1968 Average Salary	All Engineers	Aero. E.	Ag. E.	Ceramic E.	Civil E.	E. E.	E. Mech.	E. Phys.	Gen. E.	I. E.	M. E.	Met. E.	Mining E.
				22	1	1	3	16		2			14	1	
Aircraft & Space	16.62%	992.58	60	1003.	1050.	918.	979.	1012.	-	835.	-	-	976.	1050.	-
						4		36			3	1	1		
Electronics	12.47%	1002.47	45	-	-	1051.	-	999.	-	-	932.	1000.	1150.	-	-
					6		1	2			2	3	9		
Heavy Equipment	6.37%	974.30	23	-	987.	-	955.	1003.	-	-	1000.	910.	977.	-	-
						1	2	8		3			3	3	
Research Laboratory	5.54%	976.55	20	-	-	1200.	929.	967.	-	937.	-	-	952.	1024.	-
							13	2				1	2		1
Consulting Engineers	5.26%	977.37	19	-	-	-	942.	1038.	-	-	-	951.	975.	-	1350.
							1	1	2		5	1	7	1	
Automobile and Automotive Equipment	4.99%	975.72	18	-	-	-	917.	1040.	1030.	-	989.	1150.	909.	1090.	-
				2			5	4		1	1	1	4		
Federal Government	4.99%	950.44	18	958.	-	-	986.	983.	-	875.	1017.	965.	869.	-	-
						1	3	1		1	5	2	4		
Chemical and Chemical Products	4.71%	1015.18	17	-	-	950.	1018.	1080.	-	1025.	952.	1140.	1028.	-	-
								12		1	1	1	2		
Communication Equipment	4.71%	994.00	17	-	-	-	-	1034.	-	960.	795.	900.	920.	-	-
					1	1	1					3	6	4	
Metal & Metal Products	4.43%	936.13	16	-	900.	750.	770.	-	-	-	-	1038.	870.	1056.	-
							10	1					1		1
Construction and Building Materials	3.60%	1000.69	13	-	-	-	1009.	925.	-	-	-	-	910.	-	1080.
								6	1		2		1	1	
Electrical Equipment	3.05%	987.09	11	-	-	-	-	979.	863.	-	900.	-	1324.	1000.	-
								4		2	2	2	1		
Data Processing Equipment	3.05%	986.82	11	-	-	-	-	1043.	-	1025.	905.	913.	1000.	-	-
							9				1				1
State Government	3.05%	881.36	11	-	-	-	907.	-	-	-	775.	-	-	-	760.
								7			1		2		
Public Utilities	2.77%	1007.80	10	-	-	-	-	1038.	-	-	1032.	-	890.	-	-
					1		1	3		1	1		1		1
Schools	2.49%	932.33	9	-	1000.	-	1000.	864.	-	1000.	750.	-	1150.	-	900.
								6			1		1		
Controls and Instrumentation	2.22%	971.25	8	-	-	-	-	991.	-	-	875.	-	950.	-	-

(con't)

THE EMPLOYED 1963 GRADUATES ARE NOW EMPLOYED BY THE FOLLOWING TYPES OF COMPANIES (CON'T.)

Type of Company	Per Cent	1968 Average Salary	All Engineers	Aero. E.	Ag. E.	Ceramic E.	Civil E.	E. E.	E. Mech.	E. Phys.	Gen. E.	I. E.	M. E.	Met. E.	Mining E.
Petroleum	1.94%	941.14	7	-	-	-	2 935.	-	-	-	1 920.	-	2 962.	-	2 938.
Heating and Air Conditioning	1.66%	946.67	6	-	-	-	-	-	-	-	1 800.	2 988.	3 968.	-	-
Food	1.10%	1235.75	4	-	-	-	-	-	-	-	-	3 1342.	1 916.	-	-
Law	1.10%	1019.00	4	-	-	-	-	1 916.	-	-	3 1053.	-	-	-	-
City Government	.83%	1016.67	3	-	-	-	3 1017.	-	-	-	-	-	-	-	-
Glass	.83%	970.00	3	-	-	3 970.	-	-	-	-	-	-	-	-	-
Paper and Printing	.55%	925.00	2	-	-	-	-	-	-	-	-	1 900.	1 950.	-	-
Rubber	.55%	902.00	2	-	-	-	-	-	-	-	-	2 902.	-	-	-
Machine Tools	.28%	930.00	1	-	-	-	-	-	-	-	-	-	1 930.	-	-
Home Appliances	.28%	975.00	1	-	-	-	-	-	-	1 975.	-	-	-	-	-
Packaging	.28%	1200.00	1	-	-	-	-	-	-	-	-	1 1200.	-	-	-
Transportation	.28%	1200.00	1	-	-	-	-	-	-	-	-	-	1 1200.	-	-
Totals	100%		361	24	9	11	54	110	3	12	30	24	68	10	6

SIZE OF ORGANIZATIONS IN WHICH 1963 GRADUATES ARE NOW EMPLOYED

	Total Employed	0-50 Employees	51-150 Employees	151-500 Employees	501-5000 Employees	5001-10,000 Employees	Over 10,000 Employees
All Engineers	361	26 7.20% $937.46	14 3.88% $993.07	30 8.31% $1006.77	107 29.64% $986.47	47 13.02% $977.26	137 37.95% $987.47
Aero. E.	24	1 4.17% 900.00	- - -	3 12.50% 986.67	6 25.00% 1028.17	2 8.33% 1023.00	12 50.00% 993.00
Ag. E.	9	- - -	- - -	1 11.11% 850.00	3 33.33% 963.67	- - -	5 55.56% 1026.00
Ceramic E.	11	- - -	1 9.09% 915.00	2 18.18% 975.00	2 18.18% 1042.50	2 18.18% 997.50	4 36.37% 996.25
Civil E.	54	10 18.52% 927.80	6 11.11% 972.50	10 18.52% 979.00	13 24.07% 995.23	3 5.56% 903.33	12 22.22% 940.92
E. E.	110	4 3.64% 785.25	4 3.64% 1017.50	3 2.73% 1221.00	39 35.45% 999.23	19 17.27% 1007.00	41 37.27% 1003.07
E. Mech.	3	- - -	- - -	- - -	- - -	- - -	3 100.00% 974.33
E. Physics	12	- - -	- - -	- - -	3 25.00% 878.33	5 41.67% 953.40	4 33.33% 950.75
General E.	30	4 13.33% 1040.00	2 6.67% 969.00	- - -	3 10.00% 892.67	4 13.33% 877.50	17 56.67% 938.00
I. E.	24	2 8.33% 1050.00	- - -	3 12.50% 1156.67	10 41.67% 1012.10	1 4.17% 850.00	8 33.33% 1035.00
M. E.	68	3 4.41% 938.33	1 1.47% 1145.00	6 8.82% 901.67	22 32.35% 955.14	8 11.76% 937.50	28 41.19% 981.36
Met. E.	10	- - -	- - -	- - -	6 60.00% 954.33	3 30.00% 1140.00	1 10.00% 1050.00
Mining E.	6	2 33.33% 990.00	- - -	2 33.33% 1055.00	- - -	- - -	2 33.34% 937.50

FIELD OF PRIMARY RESPONSIBILITY

Field	All Engineers	Per Cent	Average Salary	Aero. E.	Ag. E.	Ceramic E.	Civil E.	E. E.	E. Mech.	E. Phys.	Gen. E.	I. E.	M. E.	Met. E.	Min. E.
				3	3		21	36	1	1	4	1	17		
Design	87	24.10%	951.63	1020.	941.	-	910.	972.	1000.	1100.	933.	890.	947.	-	-
				9	1	6	2	17	1	4	2		12		
Development	54	14.96%	978.00	978.	1020.	958.	960.	983.	1060.	936.	883.	-	1004.	-	-
				1		1	6	9			5	9	7	1	
Management or Administration	39	10.80%	1060.31	925.	-	1167.	981.	1128.	-	-	970.	1140.	1004.	1090.	-
				3	3	1	2	7	1	4	1		3	5	1
Research	31	8.59%	1001.52	1053.	1043.	918.	929.	1093.	863.	921.	1000.	-	979.	1016.	760.
				3				16		1	3	3	4		
Systems Engineering	30	8.31%	974.50	1051.	-	-	-	993.	-	888.	932.	908.	945.	-	-
							1	4		1	7	1	2		
Sales	16	4.43%	1010.06	-	-	-	1087.	1181.	-	950.	904.	1250.	910.	-	-
						1	1	3			1	3	3	2	
Manufacturing	14	3.88%	927.71	-	-	950.	1000.	853.	-	-	795.	1003.	913.	968.	-
					1		7	1				1	1		1
Construction	12	3.32%	1012.67	-	900.	-	1049.	925.	-	-	-	965.	940.	-	1080.
						1	4	4			1		1		1
Field Engineering	12	3.32%	990.00	-	-	1100.	940.	986.	-	-	775.	-	950.	-	1350.
							1	1			1	2	6		
Service	11	3.05%	977.73	-	-	-	950.	925.	-	-	1000.	940.	1000.	-	-
				1				3				1	5		
Test and Reliability	10	2.78%	932.90	919.	-	-	-	948.	-	-	-	780.	957.	-	-
								1			1		2	2	2
Production	8	2.22%	1025.38	-	-	-	-	1080.	-	-	1108.	-	905.	1165.	938.
				1			3	1				2			
Consulting	7	1.94%	988.14	994.	-	-	944.	1175.	-	-	-	958.	-	-	-
								1			4	1	1		
Law	7	1.94%	973.71	-	-	-	-	916.	-	-	1020.	1150.	670.	-	-
					1		1	2		1			1		1
Teaching	7	1.94%	958.00	-	1000.	-	1000.	828.	-	1000.	-	-	1150.	-	900.
								2					1		
Design and Development	3	.83%	943.00	-	-	-	-	1010.	-	-	-	-	810.	-	-
				2		1									
Research and Development	3	.83%	1011.67	995.	-	1045.	-	-	-	-	-	-	-	-	-

(con't)

FIELD OF PRIMARY RESPONSIBILITY

Field	All Engineers	Per Cent	Average Salary	Aero. E.	Ag. E.	Ceramic E.	Civil E.	E. E.	E. Mech.	E. Phys.	Gen. E.	I. E.	M. E.	Met. E.	Min. E.
Transportation Planning	3	.83%	1051.67	-	-	-	3 1052.	-	-	-	-	-	-	-	-
Company Owner	2	.55%	932.50	-	-	-	1000.	-	-	-	-	-	1 865.	-	-
Marketing	2	.55%	965.00	-	-	-	-	2 965.	-	-	-	-	-	-	-
Stress Analysis	2	.55%	968.00	1 994.	-	-	-	-	-	-	-	-	1 940.	-	-
Mining Engineering	1	.28%	950.00	-	-	-	1 950.	-	-	-	-	-	-	-	-
Totals	361	100%		24	9	11	54	110	3	12	30	24	68	10	6

LEVEL OF RESPONSIBILITY

Level of Responsibility	All Engineers	Per Cent	Average Salary	Aero. E.	Ag. E.	Ceramic E.	Civil E.	E. E.	E. Mech.	E. Phys.	Gen. E.	I. E.	M. E.	Met. E.	Min. E.
Individual in a Group	207	57.34%	961.30	20 989.	8 982.	3 982.	21 927.	59 989.	3 974.	10 931.	17 924.	12 942.	42 939.	7 1002.	5 977.
Supervise a Small Group	119	32.96%	981.72	4 1051.	1 1020.	7 974.	26 952.	43 984.	- -	2 1030.	8 924.	10 1070.	16 972.	2 1013.	- -
Manage Major Group or Department	28	7.76%	1104.39	- -	- -	1 1167.	5 1026.	7 1177.	- -	- -	3 889.	2 1410.	9 1055.	1 1400.	- -
Top Executive	3	.84%	1066.67	- -	- -	- -	1 1000.	1 1200.	- -	- -	1 1000.	- -	- -	- -	- -
Individual in Private Practice	2	.55%	1162.50	- -	- -	- -	- -	- -	- -	- -	1 1460.	- -	1 865.	- -	- -
Plant Manager or Superintendent	2	.55%	1290.00	- -	- -	- -	1 1500.	- -	- -	- -	- -	- -	- -	- -	1 1080.
Totals	361	100%		24	9	11	54	110	3	12	30	24	68	10	6

ABOUT HOW MANY ENGINEERS AND SCIENTISTS WORK IN THE ORGANIZATIONAL UNIT TO WHICH YOU BELONG IN YOUR CURRENT MAJOR POSITION?

	All Engineers	Aero. E.	Ag. E.	Ceramic E.	Civil E.	E. E.	E. Mech.	E. Phys.	Gen. E.	I. E.	M. E.	Met. E.	Min. E.
None	17 4.75%	- -	- -	- -	1 1.89%	1 .92%	- -	- -	3 10.00%	5 20.83%	5 7.35%	2 20.00%	- -
1 - 3	62 17.27%	2 8.32%	2 22.23%	2 18.18%	17 32.08%	11 10.09%	- -	3 25.00%	7 23.33%	6 25.00%	10 14.71%	1 10.00%	1 16.67%
4 - 10	108 30.08%	7 29.17%	3 33.33%	3 27.28%	16 30.19%	32 29.36%	1 33.33%	4 33.33%	7 23.33%	8 33.34%	19 27.94%	5 50.00%	3 50.00%
11 - 20	77 21.45%	7 29.17%	1 11.11%	- -	6 11.32%	30 27.52%	- -	3 25.00%	7 23.33%	5 20.83%	17 25.00%	- -	1 16.67%
21 - 50	45 12.53%	4 16.67%	1 11.11%	4 36.36%	6 11.32%	17 15.60%	2 66.67%	- -	1 3.33%	- -	9 13.24%	1 10.00%	- -
51 - 100	27 7.52%	4 16.67%	1 11.11%	2 18.18%	3 5.65%	10 9.18%	- -	1 8.33%	2 6.67%	- -	3 4.41%	1 10.00%	- -
101 - 300	18 5.01%	- -	- -	- -	4 7.55%	6 5.50%	- -	1 8.34%	1 3.34%	- -	5 7.35%	- -	1 16.66%
Over 300	5 1.39%	- -	1 11.11%	- -	- -	2 1.83%	- -	- -	2 6.67%	- -	- -	- -	- -
Totals	359[1]	24	9	11	53	109	3	12	30	24	68	10	6

QUESTION: On the average, how many hours a week do you work on the job?

30 hours or less	3	.83%
31 - 40 hours	86	23.82%
41 - 45 hours	188	52.08%
46 - 50 hours	58	16.07%
51 or more	26	7.20%
	361	100%

[1]Two graduates (1 M.E. and 1 E.E.) did not answer this question

QUESTIONS CONCERNING PRESENT POSITION AND ITS RELATION TO THEIR UNDERGRADUATE DEGREE

QUESTION: To hold your present position, is it important for you to have an engineering degree?

Yes:	327	90.58%
No:	34	9.42%
	361	100%

QUESTION: How much knowledge and skill related to your undergraduate major field do you apply in your present position?

Most or all	124	34.44%
Some	178	49.44%
Very little	51	14.17%
None	7	1.95%
	360	100%

QUESTION: If you have not received an advanced degree and are not working toward one, do you feel that this has been a limiting factor in your progress with your company? (Only 183 of the respondents answered this question as follows):

Yes:	24
No:	159

The 24 who answered yes gave the following reasons:

Ph.D. needed to advance in management in research.

M.S. looks good when promotions are passed out.

Company is beginning to stress advanced degree recently.

It slows the progress of advancing into management.

Top level management cannot stand on their engineering degrees alone--supplemental education is a necessity.

Promotion based on one's effort to improve professionally.

Policy leans toward advancing degrees.

Employers think that degrees mean knowledge and will give more responsibility and authority to advanced degree.

Problems encountered require advanced technique.

(con't)

QUESTIONS CONCERNING PRESENT POSITION AND ITS RELATION TO THEIR UNDERGRADUATE DEGREE (CON'T)

It is not limiting yet, but will be.

It is helpful for promotion. I will be working on an M.S. in E.E. this fall full time.

Higher positions are being filled with advanced degreed people.

I am working in Sanitary Engineering, which is a graduate level field. All courses are in M.S., Ph.D. level.

Manager's job is opening up shortly.

An advanced degree holder starts at a higher salary.

In general, a classroom is a more efficient environment to learn what will eventually be learned through necessity and association with intelligent members of your own discipline.

Ph.D. is the only first class union card in basic research.

An M.B.A. degree would be very helpful toward a sales management position.

With an advanced degree I would have a better chance at lead position.

The more you know the higher you go.

Not at present but in future because I have just about reached my salary peak.

I could handle more complex problems with more speed and confidence.

A degree is a ticket to play ball.

Continuing requirement for advanced education.

QUESTIONS CONCERNING CURRICULUM

QUESTION: Rank in order the value (1, 2, 3, etc.) of additional degrees which you feel would be the most valuable to you.

	First Choice	Second Choice	Third Choice	Fourth Choice	Fifth Choice	Sixth Choice
M.S. in Original Field	68 19.65%	73 21.10%	44 12.72%	3 .87%	4 1.15%	1 .29%
Ph.D. in Original Field	57 16.47%	25 7.23%	38 10.98%	4 1.16%	5 1.45%	3 .87%
M.S. in Another Technical Field	34 9.83%	56 16.18%	52 15.03%	8 2.31%	2 .58%	2 .58%
Ph.D. in Another Technical Field	20 5.78%	25 7.23%	26 7.51%	3 .87%	2 .58%	7 2.02%
M.B.A.	142 41.04%	53 15.32%	31 8.96%	- -	2 .58%	5 1.44%
Law	17 4.91%	34 9.83%	39 11.27%	5 1.45%	4 1.15%	5 1.45%
Other[2]	8 2.32%	7 2.01%	27 7.80%	1 .29%	2 .58%	4 1.16%
No Choice Listed	- -	73 21.10%	89 25.73%	322 93.05%	325 93.93%	319 92.20%
Totals	346[1]	346	346	346	346	346

[1] 15 of the 361 responding, employed, graduates did not answer this question.

[2] No degree specified.

(con't)

QUESTIONS CONCERNING CURRICULUM (CON'T)

QUESTION: If you had it to do all over again, would you choose:

69.97%	(247)	A specialized undergraduate engineering curriculum (e.g. M.E., E.E., etc.)
14.73%	(52)	A common undergraduate engineering curriculum (no specialization)
4.53%	(16)	Another type of curriculum in mathematics or the physical sciences (e.g. physics, chemistry)
7.65%	(27)	Another type of undergraduate professional curriculum (e.g. pre-law, pre-medicine, etc.)
2.27%	(8)	A business administration curriculum
.28%	(1)	A liberal arts curriculum
.57%	(2)	Other (no degree specified by the two respondents)
	353	

QUESTIONS CONCERNING PROFESSIONAL DEVELOPMENT

QUESTION: Have you become registered as a:

Professional Engineer	41	Yes
Engineer in Training	104	Yes
Surveyor	2	Yes
	204	No - none of the above

QUESTION: Have you participated in any company sponsored management or professional programs?

Yes	177
No	184

MISCELLANEOUS QUESTIONS

QUESTION: Have you served in the Armed Services since leaving the University?

13 - 6 months or less (3 Civ.E., 3 E.E., 2 Gen.E., 1 I.E., 4 M.E.)
3 - 1 year (1 Gen.E., 2 I.E.)
29 - 2 years or more (1 Aero.E., 1 Cer.E., 8 Civ.E., 5 E.E., 1 E.Phys., 6 Gen.E., 1 I.E., 5 M.E., 1 Met.E.)
45

QUESTION: Have you held an office in any of the following?

School Board	1	Yes
Church	64	Yes
Service Clubs	34	Yes
Boy Scouts or other youth groups	40	Yes
Political Organizations	10	Yes
Other (not identified)	20	Yes

QUESTION: Did you find the transition from college to industry to be difficult?

50	Yes
311	No